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Amendments to the Claims

1. (currently amended) A method for geographic location determination based at least in part on inspection of a network address of a client, the method comprising:
 - performing a trace route between a server and the address of the client, the trace route identifying at least one domain name in a route between the server and the client;
 - identifying a construction format for the domain name;
 - identifying a geographically significant component of the domain name; and
 - determining a geographic location for the domain name based at least in part on the geographically significant component;

determining a possible geographic location of the client based on a geographically significant component of a text based network address corresponding to the client network address; and

validating the possible geographic location of the client using the determined geographical location of the domain name identified in the trace route, the validating returning a validated geographic location of the client.
2. (original) The method of claim 1, further comprising:
 - analyzing domain names associated with a network access provider so as to identify the construction formats for said domain names;
 - identifying geographically significant components of said construction components; and
 - storing cross-references between said geographically significant components and geographic locations in a storage.
3. (currently amended) The method of claim 1, wherein the validating further comprises comprising:

validating said determined geographic location by

performing a first geographic location determination for the network address based on a determined geographical location for the domain name returned in the trace route;

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performing at least one alternate geographic determination for the network address based on at least one additional determined geographic location for at least one additional domain name returned from the trace route; and

selecting a validated geographic location of the client from either the first geographic location determination or one of the at least one additional determined geographic location determinations.

4. (currently amended) The method of claim 3, wherein the selecting further comprises comprising:

~~determining more than one geographic location for the network address; and~~

ranking said determined geographic locations in accordance with the number of alternate geographic location determinations consistent with said determined geographic locations.

5. (original) The method of claim 1, further comprising:

providing a regular expression corresponding to the construction format;

matching the regular expression against the domain name; and

identifying a geographically significant portion of the regular expression so as to facilitate said identifying the geographically significant component of the domain name.

6. (original) The method of claim 1, wherein said performing the trace route is performed from the server to the client.

7. (original) The method of claim 1, wherein said performing the trace route is performed from the client to the server.

8. (currently amended) A method for determining a geographic location for a network address, comprising:

receiving a trace route comprising first and second network host identifiers for hosts disposed between a server and a client on a network;

matching the first network host identifier to a first template;

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first parsing the first network host identifier according to the first template to determine a first geographically significant component; and

identifying an estimated geographic location for the client based at least in part on said first parsing;

matching the second network host identifier to a second template;

second parsing the second network host identifier according to the second template to determine a second geographically significant component; and

revising said estimated geographic location based at least in part on said second parsing.

9. (canceled)

10. (original) The method of claim 8, further comprising:

revising said estimated geographic location based at least in part on a client profile associated with the client.

11. (original) The method of claim 10, further comprising:

said client contacting the server with the web browser, said browser providing the client profile to the server.

12. (original) The method of claim 10, wherein the client profile is based at least in part on a customer database identifying the client.

13. (original) The method of claim 10, wherein the client profile is based at least in part on a mass-marketing database identifying the client.

14. (currently amended) A method of determining a geographic location, comprising:

creating a log comprising network addresses of clients that have communicated with a web server;

filtering the log so as to remove undesirable network addresses;

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asynchronously performing a trace route between a first one of said filtered network addresses and the server regardless of whether a previous geographic location for the first one of said filtered network addresses had been determined;

analyzing a result of said asynchronous performed trace route to ascertain a geographically significant component of at least one network address between a first one of said filtered network addresses and the server; and

determining a geographic location for said first one responsive to said analyzing.

15. (original) The method of claim 14, further comprising:

generating a report comprising geographic locations for clients that have communicated with the web server.

16. (original) The method of claim 14, wherein said determining the geographic location comprises:

matching the result against a template identifying geographically significant portions of network addresses formatted in compliance with the template.

17. (canceled)

18. (currently amended) An apparatus for geographic location determination based at least in part on inspection of a network address of a client comprising a readable medium having instructions encoded thereon for execution by a processor, said instructions capable of directing the processor to perform:

performing a trace route between a server and the address of the client, the trace route identifying at least one domain name in a route between the server and the client;

identifying a construction format for the domain name;

identifying a geographically significant component of the domain name; and

determining a geographic location for the domain name based at least in part on the geographically significant component;

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determining a possible geographic location of the client based on a geographically significant component of a text based network address corresponding to the client network address; and

validating the possible geographic location of the client using the determined geographical location of the domain name identified in the trace route, the validating returning a validated geographic location of the client.

19. (original) The apparatus of claim 18, said instructions including further instructions capable of directing the processor to perform:

analyzing domain names associated with a network access provider so as to identify the construction formats for said domain names;

identifying geographically significant components of said construction components; and storing cross-references between said geographically significant components and geographic locations in a storage.

20. (currently amended) The apparatus of claim 18, said instructions for validating include including further instructions capable of directing the processor to perform:

performing a first geographic location determination for the network address based on a determined geographical location for the domain name returned in the trace route;

validating said determined geographic location by

performing at least one alternate geographic determination for the network address based on at least one alternate determined geographic location for at least one additional domain name returned from the trace route; and

selecting a validated geographic location of the client from either the first geographic location determination or one of the at least one alternate determined geographic location determinations.

21. (currently amended) The apparatus of claim 20, wherein the selecting said instructions including includes further instructions capable of directing the processor to perform:
determining more than one geographic location for the network address; and

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ranking said determined geographic locations in accordance with the number of alternate geographic location determinations consistent with said determined geographic locations.

22. (original) The apparatus of claim 18, said instructions including further instructions capable of directing the processor to perform:

providing a regular expression corresponding to the construction format;
matching the regular expression against the domain name; and
identifying a geographically significant portion of the regular expression so as to facilitate said identifying the geographically significant component of the domain name.

23. (original) The apparatus of claim 18, wherein said performing the trace route is performed from the server to the client.

24. (original) The apparatus of claim 18, wherein said performing the trace route is performed from the client to the server.

25. (currently amended) An apparatus for determining a geographic location for a network address comprising a readable medium having instructions encoded thereon for execution by a processor, said instructions capable of directing the processor to perform:

receiving a trace route comprising first and second network host identifiers for hosts disposed between a server and a client on a network;
matching the first network host identifier to a first template;
first parsing the first network host identifier according to the first template to determine a first geographically significant component; and
identifying an estimated geographic location for the client based at least in part on said first parsing;
matching the second network host identifier to a second template;
second parsing the second network host identifier according to the second template to determine a second geographically significant component; and
revising said estimated geographic location based at least in part on said second parsing.

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26. (canceled)

27. (original) The apparatus of claim 25, said instructions including further instructions capable of directing the processor to perform:

revising said estimated geographic location based at least in part on a client profile associated with the client.

28. (original) The apparatus of claim 27, said instructions including further instructions capable of directing the processor to perform:

said client contacting the server with the web browser, said browser providing the client profile to the server.

29. (original) The apparatus of claim 27, wherein the client profile is based at least in part on a customer database identifying the client.

30. (original) The apparatus of claim 27, wherein the client profile is based at least in part on a mass-marketing database identifying the client.

31. (currently amended) An apparatus for determining a geographic location comprising a readable medium having instructions encoded thereon for execution by a processor, said instructions capable of directing the processor to perform:

creating a log comprising network addresses of clients that have communicated with a web server;

filtering the log so as to remove undesirable network addresses;

asynchronously performing a trace route between a first one of said filtered network addresses and the server regardless of whether a previous geographic location for the first one of said filtered network addresses had been determined;

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analyzing a result of said asynchronous performed trace route to ascertain a geographically significant component of at least one network address between a first one of said filtered network addresses and the server; and

determining a geographic location for said first one responsive to said analyzing.

32. (original) The apparatus of claim 31, said instructions including further instructions capable of directing the processor to perform:

generating a report comprising geographic locations for clients that have communicated with the web server.

33. (original) The apparatus of claim 31, wherein said instructions for determining the geographic location comprises instructions for:

matching the result against a template identifying geographically significant portions of network addresses formatted in compliance with the template.

34. (canceled)

35. (currently amended) An apparatus for geographic location determination based at least in part on inspection of a network address of a client, the apparatus comprising:

performing means for performing a trace route between a server and the address of the client, the trace route identifying at least one domain name in a route between the server and the client;

identifying means for identifying a construction format for the domain name;

identifying means for identifying a geographically significant component of the domain name; and

determining means for determining a geographic location for the domain name based at least in part on the geographically significant component;

determining a possible geographic location of the client based on a geographically significant component of a text based network address corresponding to the client network address; and

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validating means for validating the possible geographic location of the client using the determined geographical location of the domain name identified in the trace route, the validating means to return a validated geographic location of the client.

36. (original) The apparatus of claim 35, further comprising:

analyzing means for analyzing domain names associated with a network access provider so as to identify the construction formats for said domain names;

identifying means for identifying geographically significant components of said construction components; and

storing means for storing cross-references between said geographically significant components and geographic locations in a storage.

37. (currently amended) The apparatus of claim 36, wherein the validating means further comprises comprising:

determining means to perform a first geographic determination for the network address based on a determined geographical location for the domain name returned in the trace route;

validating means for validating said determined geographic location by

the determining means to perform performing at least one alternate geographic determination for the network address based on at least one alternate determined geographic location for at least one additional domain name returned from the trace route; and

selection means to return a validated geographic location of the client selected from either the first geographic location determination or one of the at least one alternate determined geographic location determinations.

38. (currently amended) An apparatus for determining a geographic location for a network address, comprising:

receiving means for receiving a trace route comprising first and second network host identifiers for hosts disposed between a server and a client on a network;

matching means for matching the first network host identifier to a first template;

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first parsing means for first parsing the first network host identifier according to the first template to determine a first geographically significant component of the first network host identifier; and

identifying means for identifying an estimated geographic location for the client based at least in part on said first parsing;

the matching means for matching the second network host identifier to a second template;
the parsing means for second parsing the second network host identifier according to the second template to determine a second geographically significant component of the second host identifier; and

revision means for revising said estimated geographic location based at least in part on said second parsing.

39. (canceled)

40. (original) The apparatus of claim 38, further comprising:

revising means for revising said estimated geographic location based at least in part on a client profile associated with the client.

41. (currently amended) An apparatus for determining a geographic location, comprising:

creating means for creating a log comprising network addresses of clients that have communicated with a web server;

filtering means for filtering the log so as to remove undesirable network addresses;

asynchronous tracing means for asynchronously performing a trace route between a first one of said filtered network addresses and the server regardless of a whether a previous geographic location for the first one of said filtered network addresses had been determined;

analyzing means for analyzing a result of said asynchronous performed trace route and for ascertaining a geographically significant component of at least one network address between a first one of said filtered network addresses and the server; and

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determining means for determining a geographic location for said first one responsive to said analyzing.

42. (original) The apparatus of claim 41, further comprising:
generating means for generating a report comprising geographic locations for clients that have communicated with the web server.

43. (original) The apparatus of claim 41, wherein said determining means for determining the geographic location comprises:

matching means for matching the result against a template identifying geographically significant portions of network addresses formatted in compliance with the template.

44. (newly added) The method of claim 1, wherein identifying a geographically significant component of the domain name and network address comprises:

performing one of lexical analysis or pattern matching on the domain name and the text based network address to match against known formats; and

selecting a likely geographically significant component using a deductive algorithm to analyze the domain name and text based network address.

45. (newly added) The method as recited in claim 44, wherein the deductive algorithm comprises one of an expert system or rule based system.

46. (newly added) The apparatus of claim 18, wherein identifying a geographically significant component of the domain name and network address comprises:

determination component for performing one of lexical analysis or pattern matching on the domain name and the text based network address to match against known formats; and

selection component for selecting a likely geographically significant component using a deductive algorithm to analyze the domain name and text based network address.

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47. (newly added) The method as recited in claim 46, wherein the deductive algorithm comprises one of an expert system or rule based system.

48. (newly added) The apparatus of claim 25, wherein determining a geographically significant component of the domain name and network address comprises:

determination component for performing one of lexical analysis or pattern matching on the domain name and the text based network address to match against known formats; and

selection component for selecting a likely geographically significant component using a deductive algorithm to analyze the domain name and text based network address returned from the parsing.

49. (newly added) The method as recited in claim 48, wherein the deductive algorithm comprises one of an expert system or rule based system.

50. (newly added) The method of claim 14, wherein analyzing a result of said asynchronous performed trace route further comprises:

selecting a first and second network address in the trace route;

performing a reverse address lookup of the first and second network address and the first one of said filtered network addresses, the first one of said filtered network addresses corresponding to a client, the performing to derive a first and second text based network address and client text based network address;

performing one of lexical analysis or pattern matching on the first and second text based network address and the client text based network address to match against known formats; and

selecting a likely geographically significant component for each text based network address using a deductive algorithm to analyze the text based addresses; and

returning the likely geographically significant components for use in the determining a geographic location for the client.